

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
2 October 2003 (02.10.2003)

PCT

(10) International Publication Number
WO 03/079773 A1

(51) International Patent Classification⁷: A01K 11/00

(21) International Application Number: PCT/NO03/00098

(22) International Filing Date: 21 March 2003 (21.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20021435 21 March 2002 (21.03.2002) NO

(71) Applicant (for all designated States except US): TE-
LENOR ASA [NO/NO]; Snarøyveien 30, N-1331
Fornebu (NO).

(72) Inventors; and

(75) Inventors/Applicants (for US only): THORSTENSEN,
Bjørn [NO/NO]; Kræmerveien 7, N-9010 Tromsø (NO).
SOLVOLL, Terje, Geir [NO/NO]; M. Urdals veg 7,
N-9011 Tromsø (NO). EVJEMO, Bente [NO/NO]; Hen-
rik Wergelands veg 31, N-9007 Tromsø (NO). JOHNSEN,
Øyvind [NO/NO]; Trondheimsveien 55, N-9404 Harstad

(NO). SYVERSEN, Tore [NO/NO]; Kløvervegen 8,
N-9016 Tromsø (NO). MUNCH-ELLINGSEN, Arne
[NO/NO]; Anna Eides veg 3, N-9012 Tromsø (NO).
AKSELSSEN, Sigmund [NO/NO]; Nordmarksveien
33, N-9400 Harstad (NO). KARLSEN, Haakon, Jr.
[NO/NO]; Ørnes, N-9060 Lyngseidet (NO).

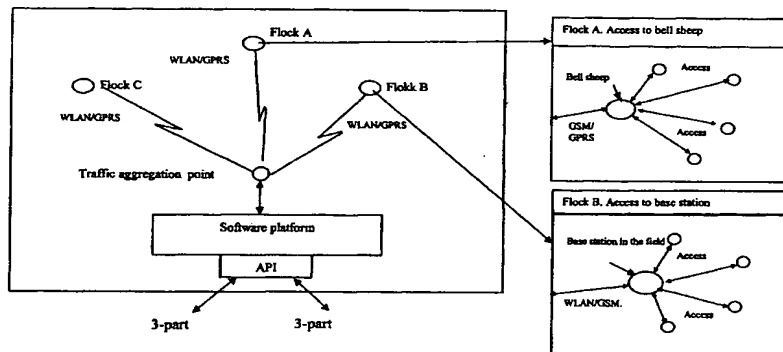
(74) Agent: OSLO PATENTKONTOR AS; Postboks 7007 M,
N-0306 Oslo (NO).

(81) Designated States (national): AE, AG, AL, AM, AT (util-
ity model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,
CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (util-
ity model), DE, DK (utility model), DK, DM, DZ, EC, EE
(utility model), EE, ES, FI (utility model), FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,
LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU,
SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

[Continued on next page]

(54) Title: A SYSTEM AND METHOD FOR TRACKING INDIVIDUALS



(57) **Abstract:** A system and method of tracking individuals divided into flocks by means of radio communication and positioning systems is disclosed. A flock leader is provided with a first electronic device (1) comprising a first transceiver (2) operating in a public radio communication network, e.g. GSM or GPRS, a position tracker (3), e.g. a GPS-receiver, and a second transceiver (4) operating in a short distance radio communication system, e.g. Bluetooth[®]. Each of the remaining individuals in the flock is provided with a second electronic device (6) comprising at least a third transceiver (7) also operating in the short distance radio communication system. The second electronic device (6) periodically transmits data identifying the associated individual to the first electronic device (1), so that the flock leader knows that the individual is localized in the flock (i.e. within the coverage area of the short distance radio communication system) as long as it receives the data. The first electronic device (1) communicates with a system controller through a public radio communication network managing the system and keeping track of the individuals in each flock.